

30.0 h + 30.0 h

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Teacher(s) :	Janvier Danielle ; Craeye Christophe ;				
Language :	Anglais				
Place of the course	Louvain-la-Neuve				
Inline resources:	Moodle <u>http://moodleucl.uclouvain.be/course/view.php?id=8229</u>				
Main themes :	This course is a part of the "Telecommunications" orientation in the Master in Electrical Engineering. LELEC2910 is dedicated to the electromagnetic aspects of wireless communications, more specifically to the antenna technology and microwave propagation theory.				
Aims :	With respect to the AA referring system defined for the Master in Electrical Engineering, the course contributes to the development, mastery and assessment of the following skills				
Evaluation methods :	The students have a written examination, based on the objectives described above. It is a closed-book exam. The evaluation of the project is a report and a presentation, individual or for a group of 2 students.				
Teaching methods :	The course is organized in  12 courses of 2h  10 supervised exercises of 2h  A project for the development of an antenna or a propagation model (1 or 2 students).				
Content :	 Antenna theory 				

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	Modeling of antenna array					
	 Radiation from linear distributions					
	Radiation from apertures					
	 Pronagation for terrestrial links					
	Earth-space propagation					
	Radar equation					
Bibliography ·	Supports :					
Diologiaphy :	 Syllabi available on Moodle					
	 Slides available on Moodle					
	Reference books available at the Science and Technology Library					
Faculty or entity in	ELEC					
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Programmes / formations proposant cette unité d'enseignement (UE)						
Intitulé du programme	Sigle	Credits	Prerequis	Acquis d'apprentissage		
Master [120] in Electrical Engineering	ELEC2M	5	-	٩		